FROM SPARK TO SPACE

HAMATEURCHATTER

One of the World's Oldest Continuously Active Radio Amateur Clubs -- since 1917

April, 2000 Vol. 08 No. 04

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From the President's Desk

Dave DeFebo - WB9BWP

Dave DeFebo

First off, let me thank Don Michalski, W9IXG the ARRL WI Section Manager for coming in from Madison for the March meeting. It was also Don's 32nd wedding anniversary. With that I also wish to thank his wife for allowing him to come. Don also brought along a 2000 Handbook which we auctioned off ($25). Probably due to Don's appearance we had 54 people at the meeting.

Thanks to all for coming. Don does work for NASA at UW - Madison. Maybe we can get him to do a program on that someday (hint, Don?).

Last month I mentioned my web page which has an area for the club. Well now the club has its own web page. http://www.qsl.net/mrac is the new "official" home. Check it out.

A few weeks ago was AES Superfest. MRAC had a table there as well as providing testing. A lot of people were involved. Let me try to list and thank them. At the table was Ken Eggert-W9MOT and Brian White-K9LCQ.

Testing was John Kraak-KF9XL, Barbara Brewer-KB9TIV, Ken Caruso-KS4NX, Mark Bye-KB9LDX, Jim Tromblay-WB9LNU, Dick McNew-WB9PTC, Norm McNew-KB9QL, Jack Krause-W9JK, Will Lorenz-W9ZOL, Pat Morett-KA1RB, and Tom Czaja-KG9EE. And of course having to type in data on all who passed, Tom Fuszard-KF9PU. If I missed anyone please let me know. By the way, probably due to

continued on page 2

Milwaukee Area Nets

DAY	TIME	MHZ	ACTIVITY
Daily	6-8 AM	14.290	Wisconsin/Florida Net (SSB)
Daily	6:30 PM	3.645	Wis. Slow Speed CW Traffic Net
MON-FRI	8:30 AM	3.965	After Breakfast Club (SSB)
MON	8:00 PM	146.445	Emergency Net
MON	9:00 PM	146.670 -	ARES Net (Milwaukee-Waukesha)
MON	9:00 PM	50.160	6 Mtr. General Net
TUE	9:00 AM	50.160	6 Mtr. 2nd shifter's Net
TUE	8:00 PM	144.250	Badger Contesters (SSB)
TUE	8:00 PM	7.035	A.F.A.R. Net (CW)
WED	8:00 PM	28.365	10-10 International (Milwaukee Ch.) (SSB)
THU	9:00 PM	50.160	6 Mtr. General Interest Net
THU	9:00 PM	146.910 -	Computer Net
FRI	8:45 PM	28.490	MRAC W9RH 10 meter Station Net (SSB)
FRI	9:15 PM	147.045 ±	W9RH 2 mtr. FM net after the 10 mtr. net
SAT	9:00 PM	146.910 -	Saturday Nite Fun net
SUN	8:30 AM	3.985	QCWA (Chptr. 55) (SSB)
SUN	10:00 AM	443.800 +	FM-38 Link to 146.88 Baraboo SWAP Net
SUN	8:00 PM	28.365	10-10 International (Milwaukee Ch.) (SSB)
SUN	8:00 PM	146.910 -	Information Net
SUN	9:00 PM	146.910 -	Swap Net

The 2 meter FM frequencies are -600 khz offset FM repeaters. FM38 is +5 Mhz offset, tone 114.8. The 10 meter SSB frequencies are upper sideband (USB). If there are additions, changes, or corrections to this list, please contact: Pancho - KA9OFA at **344-4694** or call::

1-(262)-797-MRAC or (797-6722).

HAMATEURCHATTER is the newsletter of MRAC (Milwaukee Radio Amateurs' Club) which is a not for profit organization for the advancement of amateur radio and the maintenance of fraternalism and and a high standard of conduct. MRAC Membership dues are $15.00 per year and run on a calendar year starting with January1.

Our Club/VEC Phone no. is (262) 797-MRAC.

Correspondence may be addressed to:

M. R. A. C.

Milwaukee Radio Amateurs' Club
P.O. Box 25707
Milwaukee, WI 53225
Our meetings are normally at 7:30 PM.
the last Thursday of the month except for December.

Presidents Desk continued from page 1

the new rules, MRAC has tested over 200 people since January 1. Good job people! Superfest was also the first official unveiling of the new MRAC banner.

Thanks to Brian White for the design and follow-thru. I would also like to thank AES for providing space for a club table and for testing.

Well, the new licensing rules have gone into effect. We now have 3 classes of license with 1 code speed for 2 of the 3 classes. I have waited until the magic date to offer my comments. First off, let me say I did file personal comments to the FCC during the comment period. If you don't like the way the rules turned out and you did not file any comments, too bad. I have heard a lot of griping from people about the final decision. Many of these people did not file comments. Contrary to some opinions, the FCC really did come up with a plan based on comments received. It does appear that the ARRL did not fare well as far as having any extra pull with the FCC. Maybe that's good. Anyway, all that is past. We now have new rules (this is not the first time there have been major rules changes) so what does that mean to us?

While the Morse code has not been eliminated, the testing requirement has been greatly reduced. I don't want to get into a debate on code testing (why not typing testing, or test the ability to speak clearly). We still have a code test, but it should not be the barrier it has been. And yes, it has been a barrier. 5 wpm is not that hard to pass. For many, 13 and 20 wpm was. On the surface that means we should see a lot more people move to General or Extra than in the past. By the time you are reading this, I should be one of the recent "wimpy" extras (or Extra Lite). Those are Advanced class hams who took the Extra written test before April 15 and then came in after April 15 to have their CSCE turned into a real Extra class license, all without taking an additional 20 wpm code test. Does that mean I am any less an Extra than anyone who took the code test? I would be more than happy to debate qualifications any time, for now, an Extra is an Extra. A General is a General. A Technician is a Technician. No one is any better or any worse than anyone based on their license class or the test they took. Is the Extra who gets on 75 or 20 and checks into a couple of roundtable nets a week any better than anyone else? Because that person is an Extra are they a better ham than the Technician who operates a repeater, has a packet node, runs APRS from their car, works 440 MHz sideband, and maybe is playing with ATV on 1296 MHz? Anyway, enough of that.

With the possible sudden increase in the ranks of General class licenses (especially from Technicians who took the old test before March 1987), there could be a lot of people with only VHF experience just getting started on HF. Since we are a general purpose club (as opposed to a repeater club), with a lot of HF expertise (right?), we may be able to offer these people some extra help. Let's not let this opportunity slip by. Let's go out of our way to invite these people to a club meeting and continue to go out of our way to help these people in their foray into HF operating (besides the market for used radios may pick up).

We are entering into a new phase in the development of Amateur Radio. The decreased code requirement and the streamlining of license classes means that the test should not be a barrier to anyone really interested in becoming a ham. The next question is, why would anyone want to become a ham? Don't think about any reasons from 30 years ago. Think about reasons why anyone would want to become a ham today. Late last year I wrote a bit about growing amateur radio. Any ideas?

Maybe this is our last shot.

P.S. April is time for nominations for officers of the club (May is elections). All officer and 3 director positions are available. Where can we write in your name? Also don't forget Field Day in June.

'Till next month.

Dave B. DeFebo

Wanted

Looking for 19" rack shelves and other rack stuff (cabinets not needed right now).
Thanks...
Dave - WB9BWP
529-5583 or Email
"Dave DeFebo"
<wb9bwp@execpc.com>

MRAC Board Meeting 3/27/2000

Previous meeting minutes were read and approved as written.

Ken, W9MOT, Treasurers report -- Liquid assets $ 3,622.27. Total with CD $8,622.27. The club's CD will pay its interest in August.

All officers and three directors are up for election in May. Nominations are due next month. All members are urged to volunteer to run for office. It's fun and you certainly will get to know more very nice people this way.

VEC News -- John, KF9XL reports that everything is under control. We have all the new exams ready and the new CSCE's and 605 forms. The last test session with the old test will be at AES Super Fest. Our VE program gave a Braille exam at the last session. This individual passed his Extra written exam and the 20 WPM code test. He has offered to become a VE for testing blind hams. He will create more and updated Braille test for us.

Jim - WB9LNU

Tom, KF9PU, says that the FCC ULS system has expired. The FCC decided to come up with a new system now called CORS. John says this just shows that nothing is permanent - just wait a month and watch for the changes. There is also a new 605 form to replace the old 605 form.

Jim, WB9LNU, has completed the repeater coordination and WARS renewal forms. He will also be the clubs new trustee for the W9RH license. Jim has an Extra class license which allows all members to use all bands and frequencies when operating our club station at Field Day or any other event. This license is also used for the club repeater.

The club's 2 meter repeater amp is for sale for $300.00 It takes a maximum input power of 10 watts and provides 100 watt output continuous. It has a 19" rack mount heat sink 10.5 inches tall. Runs on 12 volts DC. Was used for approximately 6 months. The clubs new repeater requires a amplifier that will handle 30 watts input instead of 10.

The board is hoping that most of the active members will take the time to answer the survey on the clubs repeater. The survey questionare is in the Chatter.

Dave, WB9BWP, our President reports that the club had a table at two of the latest area swap fest and we picked up several new members while there. Dave assigned various members with jobs to create a new flier for the club and a display that can be used at the club table. Jim, WB9LNU will create the history flier and Brian KB9LCQ has designed and will order the new club banner. Jim will make a mount for the new banner. Pancho made a motion and seconded by Jim to authorize $200 dollars to pay for the new club banner etc. The board members have donated most of the money required. Donations to this project by the members would also be greatly appreciated.

A new members package will be created. It will consist of a member badge, roster, club history, welcome letter and of course a years subscription to the Chatter.

John, KF9XL, asked if we would consider an auxiliary group for junior members and try to develop an interesting way to get a few younger kids involved with the club. Exactly how we can do this is still open for much discussion. Any ideas or volunteers to help with a project like this?

Brian, KB9LCQ, says that there are several teen-agers on other repeaters asking lots of questions.

Field Day -- Jim will try to contact Fred Linn, W9NZF and see if the depot is available to the club this year. We need a Chairman for the event! The Chairman must organize the food which consists mostly of cold cuts, rolls and potato salads. Also donuts and goodies and of course lots of cold drinks. The depot has a kitchen and a refrigerator. Also running water and a out house. The Chairman must also send in the log to the ARRL.

The May meeting will be auction night. Any member can sell their equipment for themselves or donate it to the club. You may set a minimum price on your equipment before it is auctioned off. The raffle table will also be open for small goodies and parts.

The board is still looking for a place to have classes for both Tech and General class licenses. A code class requires at least 8 weeks. We also need volunteer teachers!

The new roster for this year will be out soon. The roster will come in the Chatter to save on postage. Or, you can get one at the meeting. Brian will inform us when he is ready to issue them.

The meeting adjourned at 9:30.

Thanks to Ken for the use of his QTH and all the goodies to eat.

Respectfully submitted,

Jim WB9LNU

Jim WB9LNU
Secretary

Wanted

NIXIE TUBES

Wanted: New or Used Nixie tubes as well as equipment with NIXIE tube displays. Equipment may be dead or alive. What have you? Call Matt - 475-6404.

MRAC Club Meeting 3/30/00

Previous meeting minutes were read and approved as written.

Treasurers report -- Liquid assets 3,622.27 Total with CD $8,622.27.

Ken, W9MOT also reports that almost all members have now paid their dues for this year.

The club has some extra patches available. They are $5.00 each. See Ken at a meeting if you want one.

Vern, W9RYA was in the hospital, but O.K. now. He is still working on a place for our Christmas party.

The mic was passed for all to I.D.

Dave, WB9BWP our President gave the latest general news of whats happening around town and swapfest, etc. We have several new members who signed up.

Warren, K9IZV, says that we have 52 in attendance tonight.

VEC news -- April at AES, testing from 8:45 to 12:00. April 17th a paperwork session only for all those that meet the new license qualifications implemented by the FCC on April 15th.

Brian, KB9LCQ (now K9LCQ), is having a new club banner made to be used at the club table at swapfest and Field Day etc. The banner is being paid for by special donations from the board members and regular members. Any of you that would like to help, please send your contribution to Ken Eggert. $5.00 is O.K. Several board members have donated upwards of $20.00 each.

We need nominations and volunteers at the next club meeting to run for all officer and three director positions. The election is at the May meeting. The May meeting is also the club auction night. Any member can auction their gear for themselves. A minimum price can be set prior to the auction. Equipment can be donated to the club if you wish.

The club's repeater amp. is for sale. $300.00 The amp. will take 10 watts input maximum and delivers 100 watts out. Requires 12 volt power. The unit was used about 6 months. Since we bought our new repeater, which has 30 watts out, we can not use the amp we now have.

The club's new WEB site, thanks to the efforts of our president, is WWW.QSL.NET/MRAC and messages to any board member can be sent via W9RH@ARRL.NET

Jerry, WA9SFH, says that KA9MTY's equipment is for sale. See Jerry for prices.

Field Day -- A Chairman is needed. Food and ARRL logs are among the duties.

Dave did his usual best to auction off more equipment donated to the club by Del Clark, KA9ZMK. Del has been extremely generous with all the new equipment he has donated over the last two years. Thank You Very Much Del!!!!

Our guest speaker for the evening, Don, W9IXG, Wisconsin ARRL Section Manager donated an ARRL 2000 Manual. It was auctioned also.

The meeting adjourned at 8:20.

Our guest can be reached through W9IXG@ARRL.ORG or 608-274-1886,

He also has a web site W9IXG.EBOARD.COM. The evening talk was about what a section manager does and what volunteers they need.

Thanks to Tom and Jacquie for their help with the raffle and also to our kitchen crew for the soda, coffee and donuts.

Respectfully submitted,

Jim WB9LNU

Jim WB9LNU
Secretary

Doings

April Meeting

A documentary from Dave DeFebo's library "Transistorized"

May Meeting

Our May meeting will feature Election of Officers and three directors AND our famous Auction whereby you bring your treasures and we auction them off for you. Come to the meeting and sell or buy and help elect our new slate of officers.

Field Day 2,000

June 24th and 25th is Field Day at Pioneer Village in Cedarburg. We still need a Field Day chairperson (coordinator). We could also use some more operators for the Field Day stations (any licensed operator can do it).

Come on out for this event -- Join the fun!

Credits

Thanks to our news contributors this month:

KB9BWP	WB9LNU	WA9SFH
K9LCQ	KF9PU	KF9XL

We would also like to thank Alfred Huwald, and Myron Hendricks for taking care of the refreshments at our meetings.

Thanks to Bryan Pauers, Rita Doneis, and Michelle Doneis for their help in the proofreading dept.

Thanks also to Sue Wille for helping with transfer of 'Chatter materials..

Our thanks goes to John Merkl and Barbara Brewer for making sure that the 'Chatter gets printed, stamped, and mailed.

Also our thanks goes to Tom Scherlowsky and Jacquie Horwitz for handling the Raffle at the meetings.

Our gratitude knows no bounds!

Amateur Radio News Release

The Foundation for Amateur Radio, Inc., a nonprofit organization with headquarters in Washington, D.C., plans to administer seventy-three (73) scholarships for the academic year 2000 - 2001 to assist licensed Radio Amateurs. The Foundation, composed of over seventy - five local area Amateur Radio Clubs, fully funds ten of these scholarships with the income from grants and its annual Hamfest. The remaining sixty - three (63) are administered by the Foundation without cost to the various donors.

Licensed Radio Amateurs may compete for these awards if they plan to pursue a full - time course of studies beyond high school and are enrolled in or have been accepted for enrollment at an accredited university, college or technical school. The awards range from $500 to $2500 with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs. Clubs, especially those in Delaware, Florida, Maryland, Ohio, Pennsylvania, Texas, Virginia and Wisconsin, are encouraged to announce these opportunities at their meetings, in their club newsletters, during training classes, on their nets and on their world wide web home pages.

Additional information and an application form may be requested by letter or QSL card, postmarked prior to April 30, 200 from:

FAR Scholarships
Post Office Box 831
Riverdale, MD 20738

The Foundation for Amateur Radio, incorporated in the District of Columbia, is an exempt organization under Section 501(C)(3) of the Internal Revenue Code of 1954. It is devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

Dear fellow hams.

This is Dave W9WRL, I am the hamfest chairman for the Davenport Iowa RAC. If you have received this message it's because either I know you or your e-mail address was listed with the ARRL as being a contact person for your local club. If you wish to be remove from this mailing list please just reply and say REMOVE.

The Davenport RAC has moved it's annual hamfest to a new date and location. The date is Sunday November 5th 2000. The location is the Iowa National Guard hanger at the Mt. Joy airport just North of Davenport Iowa. Take Mt.. Joy exit off Hwy 61 N, go West 3/4 mile turn right at the stop sign, it's just ahead on the left.

I am written to you today to ask you to please spread the word. If you would like tickets or flyers please let me know. You can visit the hamfest web site and download

For Sale from the Estate of KA9MTY - Dick Schlatterer

Dick - KA9MTY

Field Day '98

Field Day "97

- Icom 2 meter IC-02 HT $100.00
- 2 Meter Mag Mount Ant $25.00
- Uniden 10 Meter xcvr HR 2600 with hand mike - sn/35001503 $100.00.
- MFJ Deluxe Versa Tuner II Model MFJ-949E w/ power supply $85.00.
- Tri-Band Beam - Mosley Classic 40 Foot Rohn Tower CDE Rotor Ham-II / CD 44 package $500.00, you take down.
- B & W TVI Filter Model FL-10/1500 $25.00.
- Dipole Antennae 102 ft long with ladder line $15.00.
- Cantenna Oil Filled Dummy Load $15.00
- Pyramid Phase III Power Supply 13.8 volts @ 7 amps $10.00
- Kustom Kreations Model 504 Regulated Power Supply 35 watts $7.00
- Bishop Preamp SSB & AM $2.00
- Headphones - Pro 5LC with separate volumn controls $20.00
- Panasonic RJ 3200 23 Channel CB xcvr good for parts $1.00

Contact Jerry Thompson - WA9SFH 414-354-6943
or e-mail: jerthomp@execpc.com

BIRTHDAYS

May Birthdays

	Birthdate		Birthdate
Bernard M. Shuster - KB4QXV	5/7	Hans Schroeder - AE9G	5/14
Allan R. Drobac - AA9XH	5/8	Robert F. Gorski - KB9VNE	5/21
Ron E. Hagen - KB9KYI	5/9	Ken W. Eggert - W9MOT -	5/26
Delbert C. Clark - KA9ZMK	5/12	Charles J. Merten - W9CHD	5/27
Patrick P. Malloy - W9ZO	5/12	Norman Russell - KB9GQX	5/29

73,

Brian - K9LCQ

¡¡Happy Birthday !!

events (upcoming)

* indicates VE testing

Ozaukee Radio Club SwapFest *
May 6, 2000
Circle "B" Recreation Center
Cedarburg, WI
T/I on146.37/97 rpter or 146.52 simp.

Lakeshore Hamfest *
Sat. - May 13, 2000
Manitowoc Co. Expo
Manitowoc, WI
T/I 146.61 MHz

Princeton HamFest and Computer Show
Sun. - Jun. 4, 2000
Bureau Co. Fairgrounds
Princeton, IL
T/I on 146.955- PL 103.5

Eau Claire HamFest *
Sat. - Jun. 10, 2000
Eau Claire Co. Exposition Ctr.
Eau Claire, WI

Six Meter Club of Chicago, Inc.
43rd Hamfest *
Sun. - Jun. 11, 2000
DuPage Co. Fairgrounds
Wheaton, IL

ARRL Field Day
June 24 & 25, 2000
Pioneer Village
10 mi North of Cedarburg, WI on Hwy I

SMARC SwapFest '00
Sat. - July 8, 2000
American Legion Post 434
Oak Creek, WI
T/I on 146.52 simp

SummerFest 2,000 *
Sun - Aug. 13, 2000
Amana Colonies Convention Center
Amana, Iowa

Peoria SuperFest 2000 *
Sat. & Sun. Sep. 16 & 17, 2000
Exposition Gardens
Peoria, IL

Radio Expo 2,000
Sat. & Sun. Sep. 23 & 24, 2,000
Lake Co Fairgrounds
Grayslake, IL
T/I on146.16/76 (107.2 Hz PL) rptr.

HAM Radio and Public Service: A Winning Combination

With spring here and summer just around the corner, its almost time for another season of charity walks and rides. These public service events provide hams with an excellent opportunity to use their equipment and skills in a way that benefits the local community. In turn, the public gets the chance to see us in action and further their understanding of amateur radio. Of the two to three dozen events that occur in the Milwaukee area each year, generally only a handful are large enough to warrant our participation. Some examples are the Trek 100, Best Dam Bike Tour, and the Miller Ride for the Arts. These events often require 15 to 20 ham volunteers, sometimes more. Hams assist the net control operator, ride in a SAG wagon or with a route captain, and man the rest stops. Each position is vital and gives you a chance to interact with event participants. Those who prefer to walk or ride the course instead should consider taking along an H-T. Net control always appreciates an extra set of eyes on the route. This also provides you the opportunity to talk up amateur radio as you are pedaling or walking. The sight of your radio or antenna system can spark questions from other participants. Take a moment or two to explain amateur radio and how we are involved in the event. Dont be surprised if you hear a hearty "thanks." Many of these riders and walkers know that amateur radio is assisting with the event; they just haven't met any hams up front. Your professionalism and enthusiasm can do wonders for our community and help ensure that we are asked to help out the following year. For the latest information on upcoming special events, tune in to the Information Net held each Sunday at 8:00 p.m. on the 146.91 repeater. Hope to "see" you at the next event.

Tom

Tom Fuszard KF9PU

Latest VE Testing

Tom - KF9PU at a recent meeting.

OUR VECs

John - KF9XL at Field Day '99

MRAC-VEC held amateur license examinations on March 25, 2000 at AES. There were 30 candidates, and 7 were successful in either upgrading or getting their first license. 42 elements were given, and 31 were passed. The exams were adminstered by the following 13 VE's:

Mark Bye KB9LDX
Ken Caruso KS4NX
Bob Immekus W9CYI
Kate Kedney KA9MWT
John Kraak ..... KF9XL, VEC
Jack Krause W9JK
Will Lorenz W9ZOL
Norm McNew K9QL
Dick McNew WB9PTC
Joe Mettry AA9DO
Les Petterson W9YCV
Sherm Swanson KB9Q
Jerry Thompson WA9SFH

VE session held by MRAC-VEC on April 8, 2000 at AES Superfest. A total of 54 candidates were tested, and 7 were successful in either earning their first license or in upgrading. 71 elements were given, and 42 were passed. Congratulations to those who were successful. A special thank you to the following VE's for all their hard work:

Barbara Brewer KB9TIV
Mark Bye KB9LDX
Ken Caruso KS4NX
Tom Czaja KG9EE
Pancho Doneis KA9OFA
Tom Fuszard ..... KF9PU, VEC
John Kraak ..... KF9XL, VEC
Jack Krause W9JK
Will Lorenz W9ZOL
Norm McNew KB9QL
Dick McNew WB9PTC
Pat Moretti KA1RB
Sherm Swanson KB9Q
Jim Tromblay WB9LNU

MRAC-VEC held a license upgrade paperwork processing session on April 17, 2000 at AES. There were 59 candidates, and all were successful in upgrading their present licenses. Congratulations to all. The following VE's contributed their talent and time to make the evening a success:

Barbara Brewer KB9TIV
Mark Bye KB9LDX
Ken Caruso KS4NX
Tom Czaja KG9EE
Tom Fuszard ..... KF9PU, VEC
Kate Kedney KA9MWT
John Kraak ..... KF9XL, VEC
Jack Krause W9JK
Will Lorenz W9ZOL
Dick McNew WB9PTC
Norm McNew KB9QL
Joe Mettry AA9DO
Pat Moretti KA1RB
Gary Payne N9VE
Les Peterson W9YCV
Sherm Swanson KB9Q
Jerry Thompson WA9SFH

73,

John (KF9XL)

John KF9XL

MRAC

This Month's meeting:

Thu. - April 27, 2000 (Y2K)

7:30 PM

Program: Video Documentary
"Transistorized"

Location: Redemption Lutheran Church
Fellowship Hall
4057 N. Mayfair Rd.
(Use the south entrance)
HANDICAPPED ACCESSIBLE

Please! Don't call the Church
for information!!!

Board meeting: Mon. -April 27, 2000

Next meeting: May 25, 2000

HamateurChatter
Deadline is
May 1, 2000

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Our Phone number
(262) 797-MRAC
(797-6722)

FROM SPARK TO SPACE

April ,2000 Vol. 08 No. 04

HAMATEUR CHATTER

One of the World's Oldest Continuously Active Radio Amateur Clubs - since 1917

Phone (262) 797-MRAC -- Use our Club Repeater - W9RH 147.045+ offset

M. R. A. C.

Milwaukee Radio Amateurs' Club

P.O. Box 25707

Milwaukee, WI 53225